

1 / 19

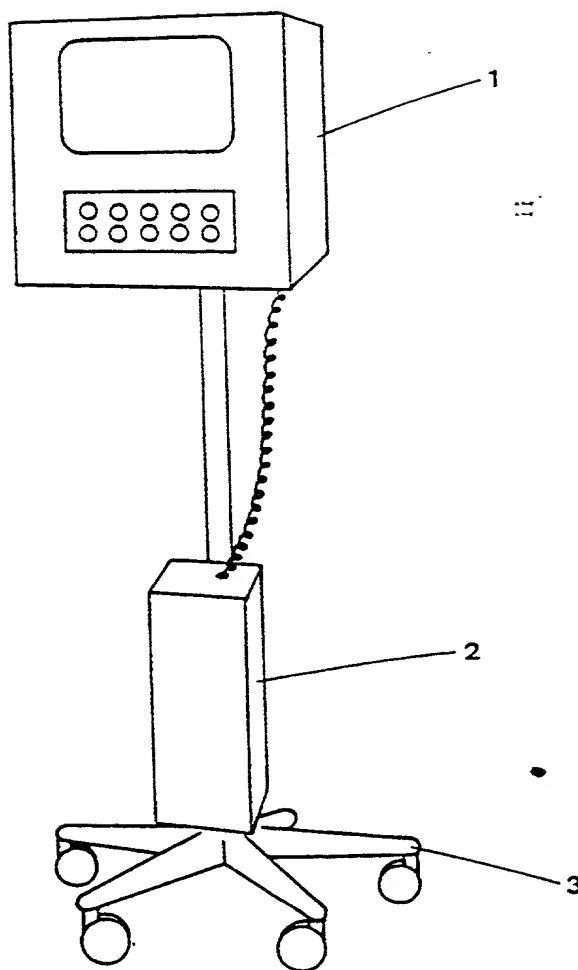


Figure 1

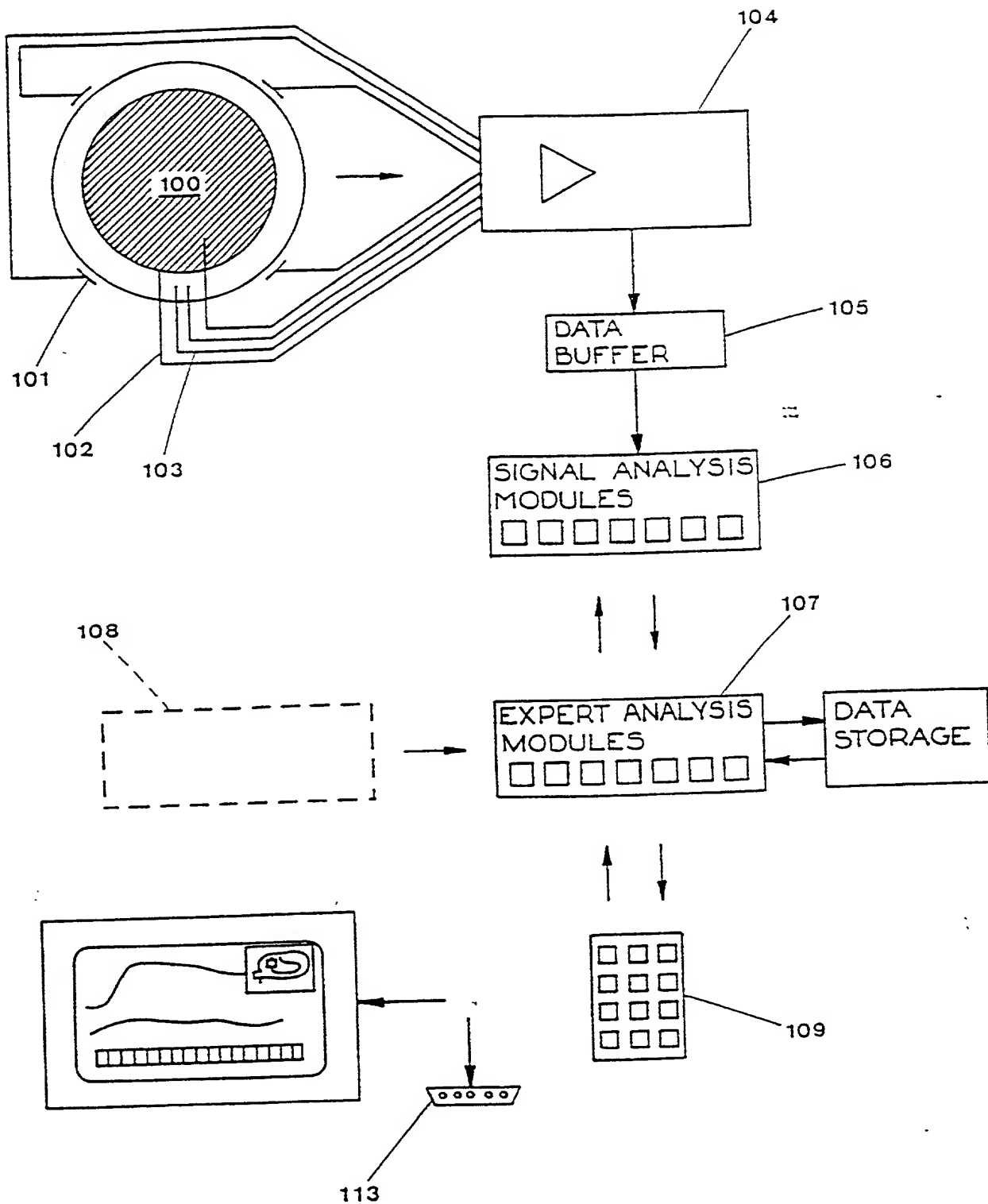


Figure 2

3 / 19

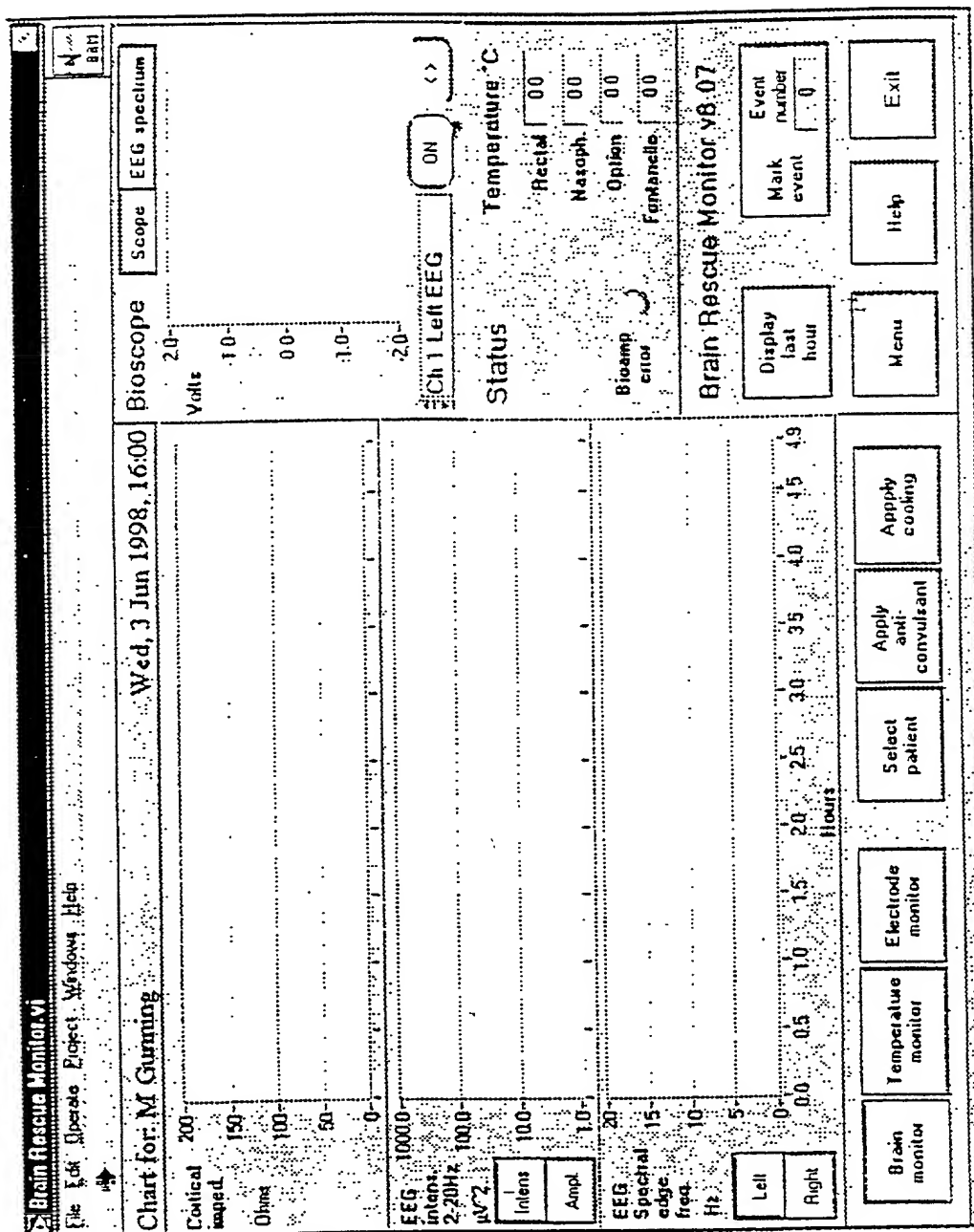


Figure 3

4 / 19

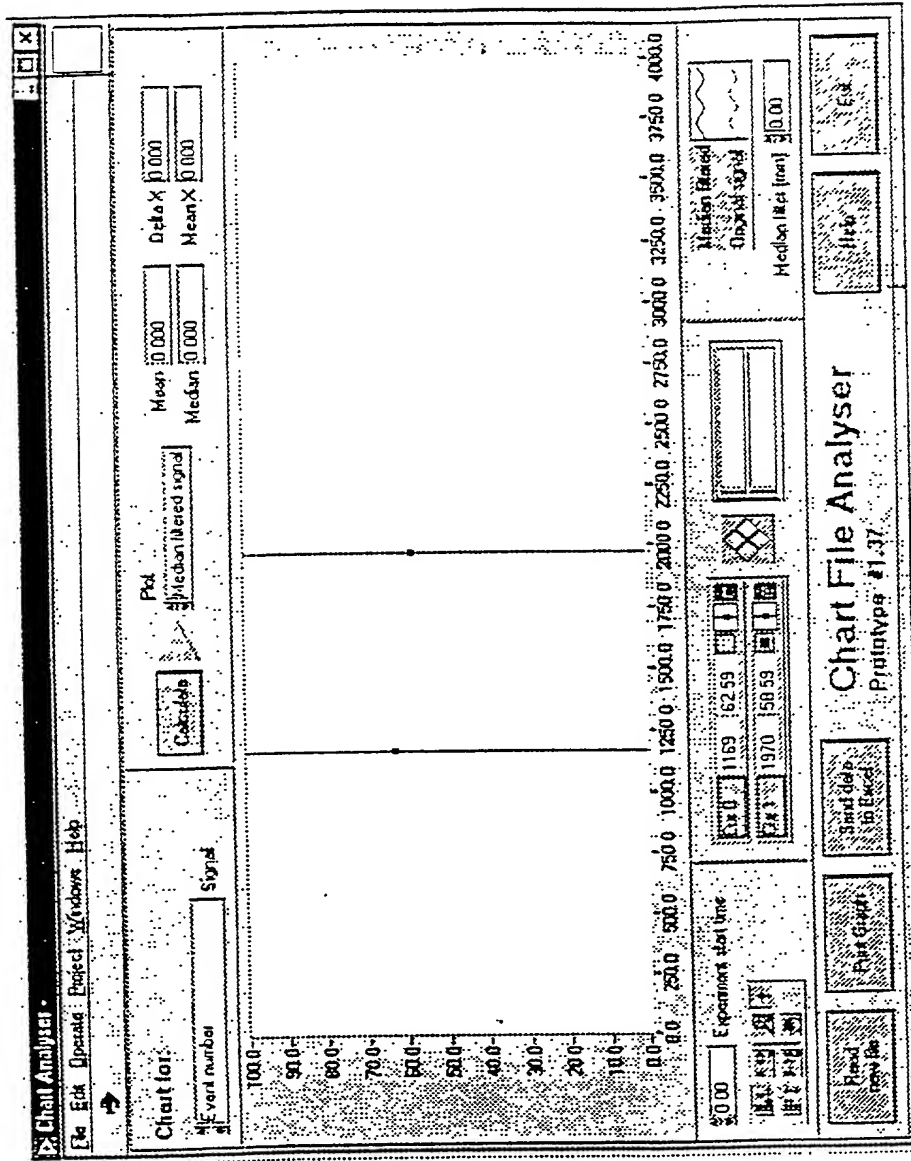


Figure 4

5 / 19

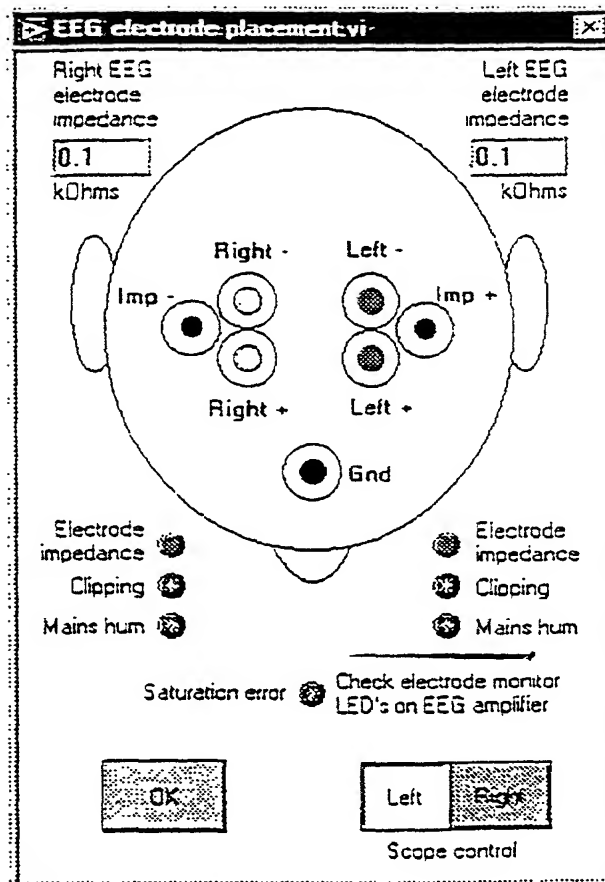
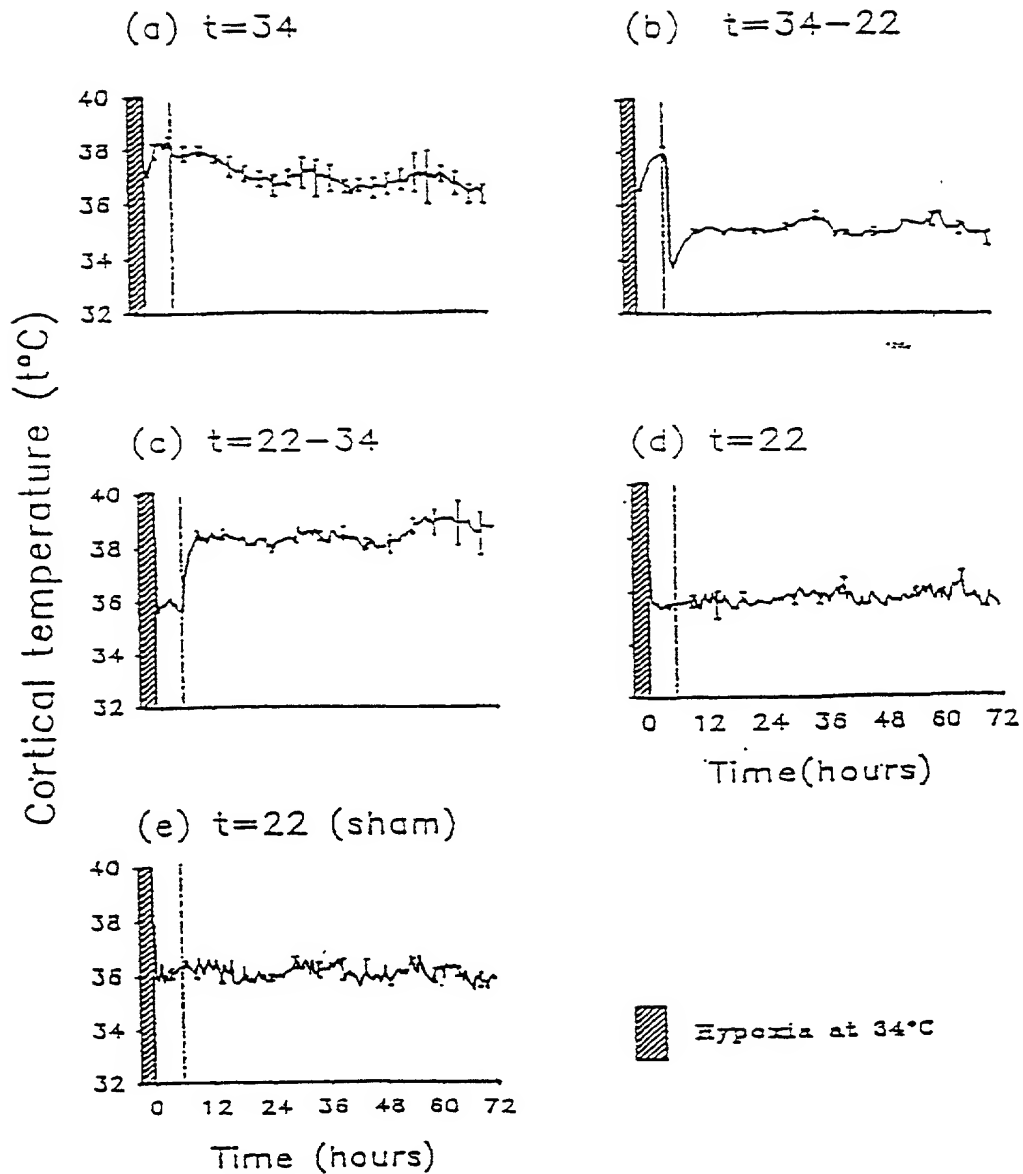


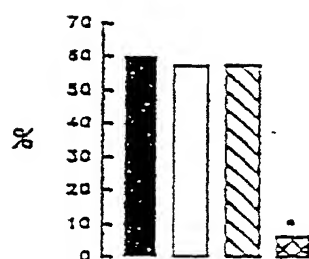
Figure 5

6 / 19

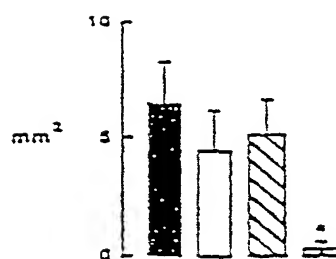
**Figure 6**

7 / 19

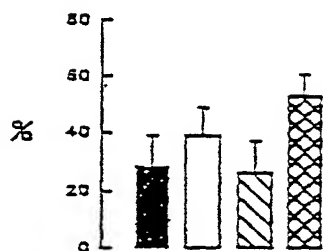
(a) Infarction rate



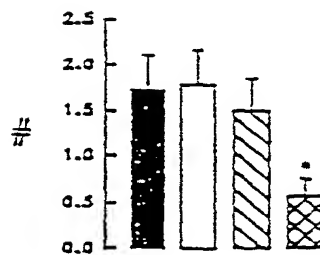
(b) Area of cortical infarction



(c) Surviving hippocampal neurons



(d) Striatal neuronal loss score



(e) Area of cortical infarction 3 weeks after hypoxia

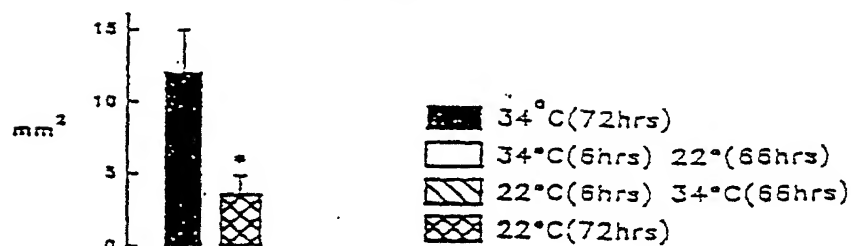


Figure 7

8 / 19

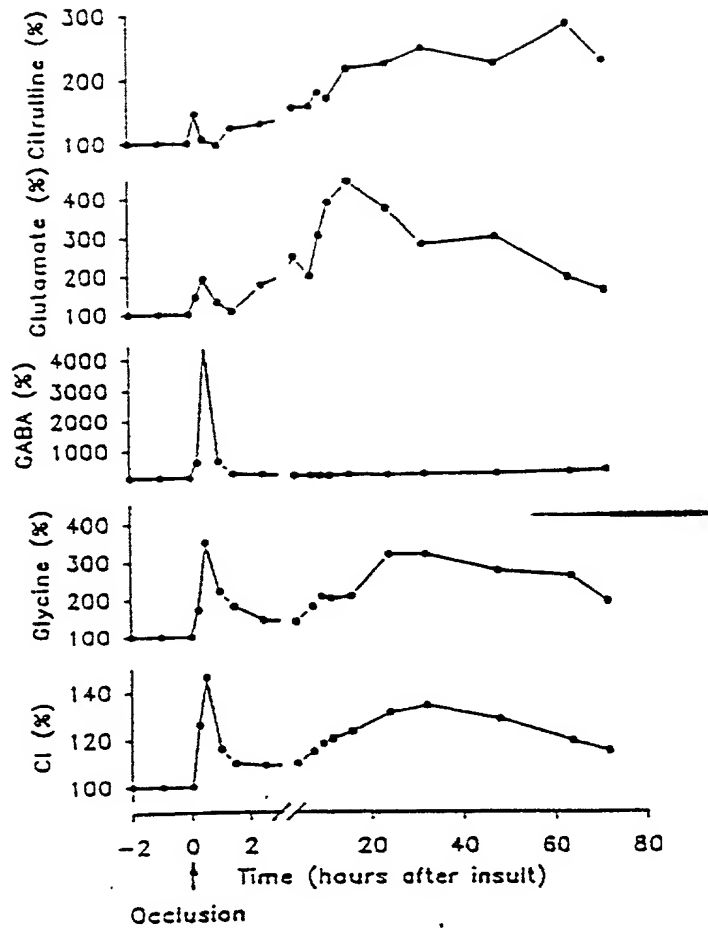


Figure 8

9/19

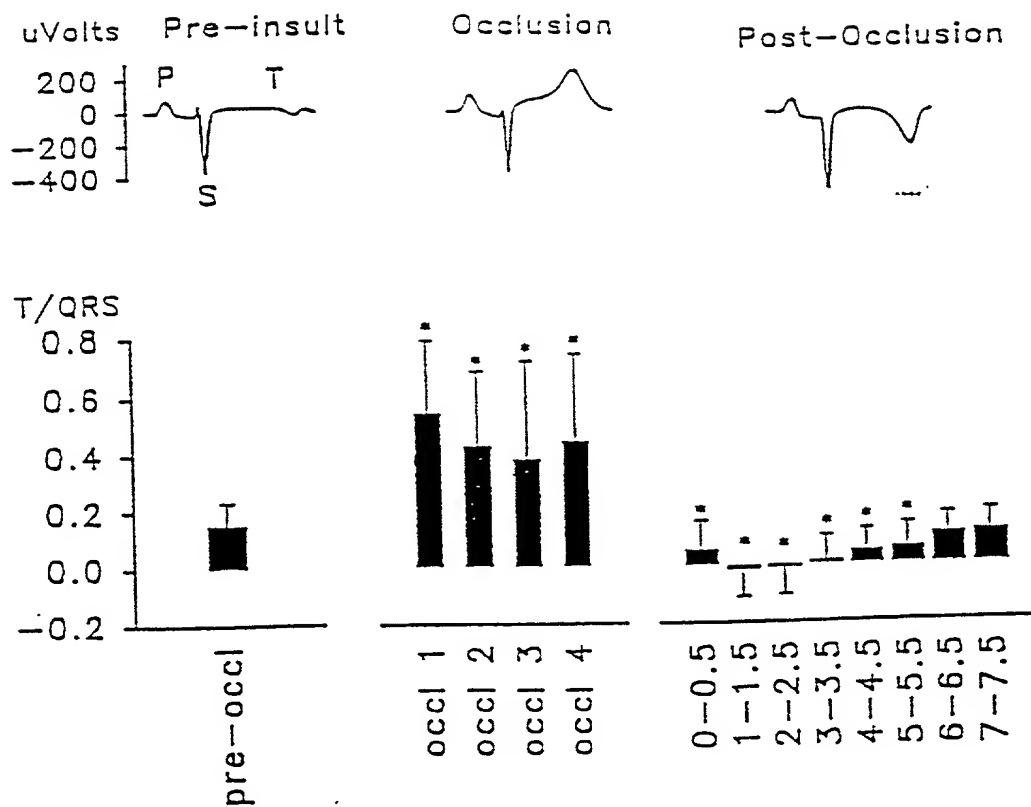
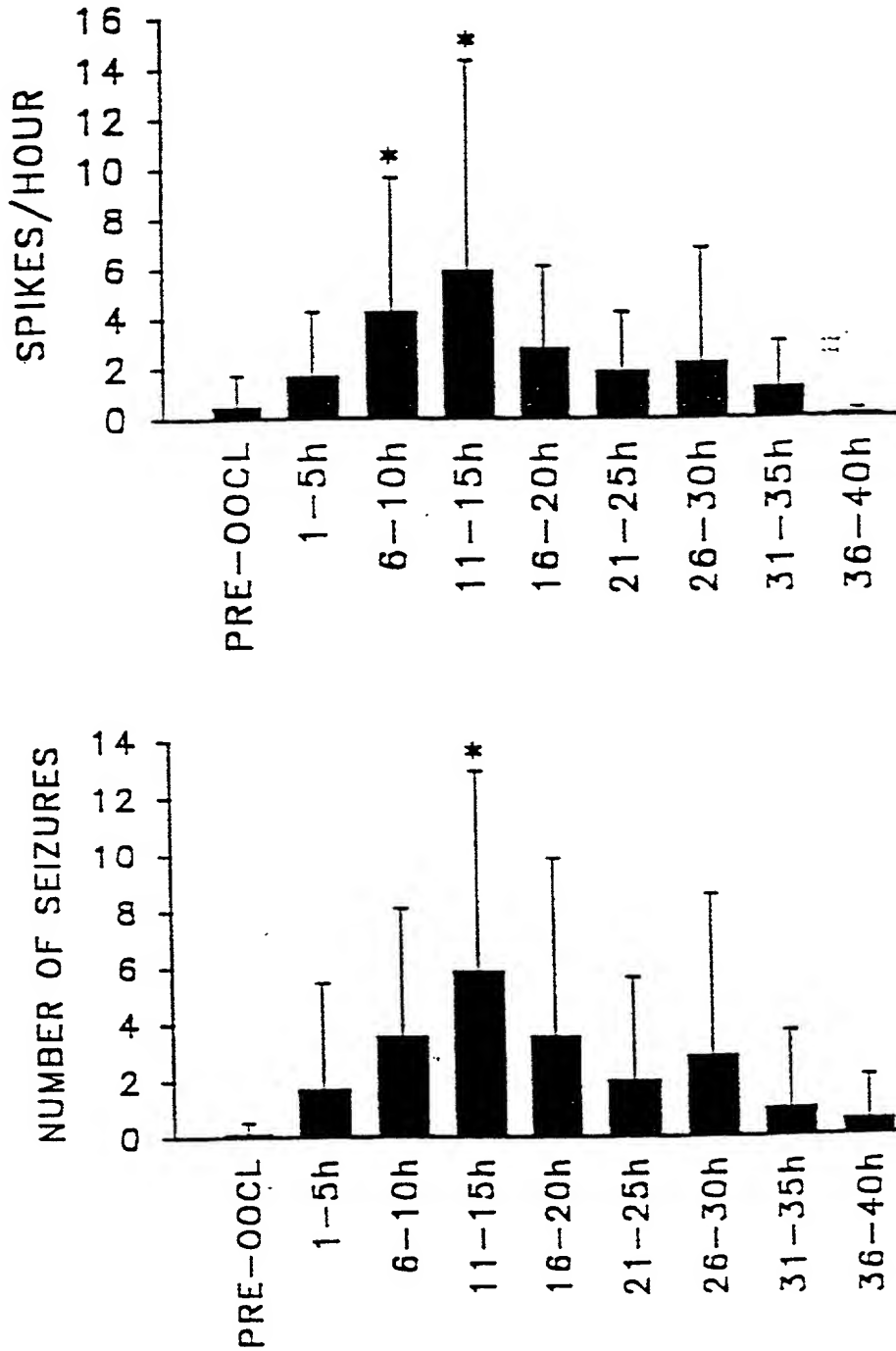


Figure 9

10/19

**Figure 10**

11/19

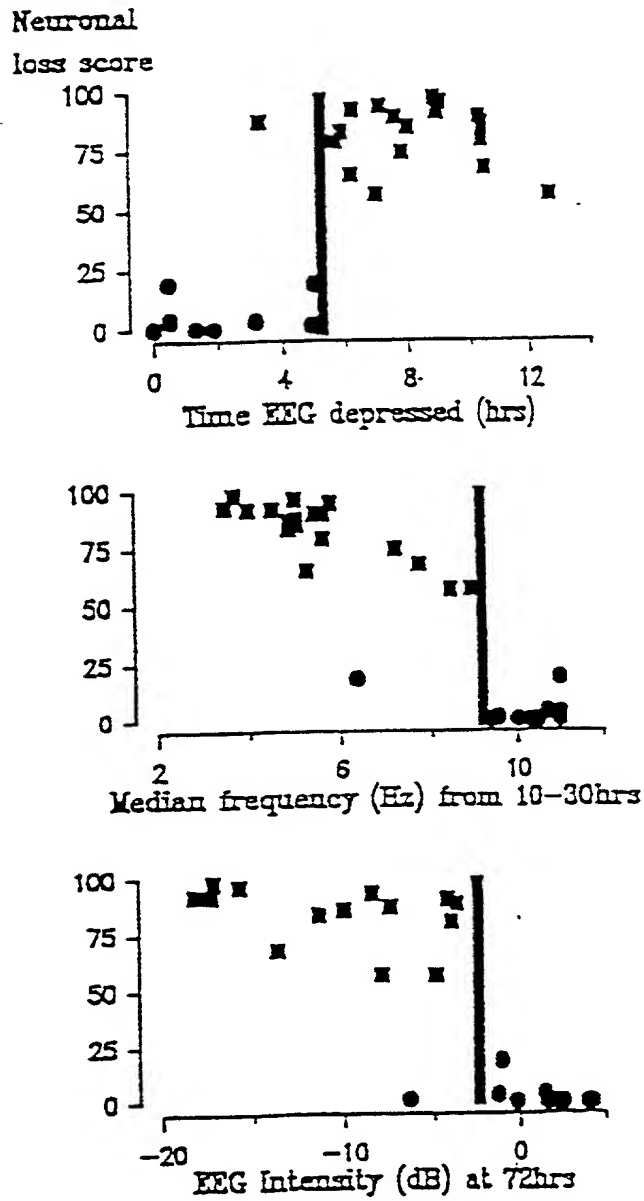


Figure 11

12 / 19

Magnitude of drop in blood pressure, and levels of lactate and glucose versus neural outcome. (r = correlation coefficient; p = significance).

	r	p
CA3 neuronal loss vs % blood pressure drop	0.876	p=0.02
CA1/2 neuronal loss vs % blood pressure drop	0.922	p=0.01
CA3 neuronal loss vs lactate 10 min after insult.	0.035	NS
CA3 neuronal loss vs lactate 1 hr after insult.	-0.066	NS
CA3 neuronal loss vs glucose - 10 min insult	0.512	NS

Correlations between total neuronal loss score and measured changes during the 4th umbilical cord occlusion.

	r	p
HR (% of baseline)	0.28	0.54
MAP (% of baseline)	0.867	0.01
T/QRS ratio of ECG	0.75	0.03
PpO ₂ (kPa)	0.5	0.26
pH	-0.71	0.08
Lactate (mM/L)	0.49	0.26
Glucose (mM/L)	0.13	0.78
EEG depression (min)	0.78	0.02
No. of seizures	0.95	<0.01

Figure 12

13/19

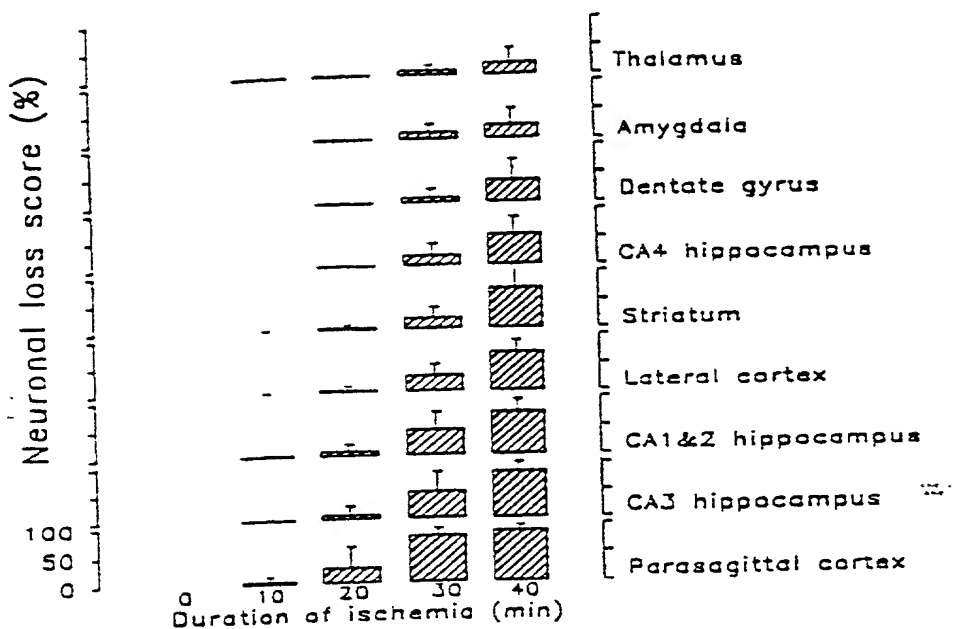


Figure 13

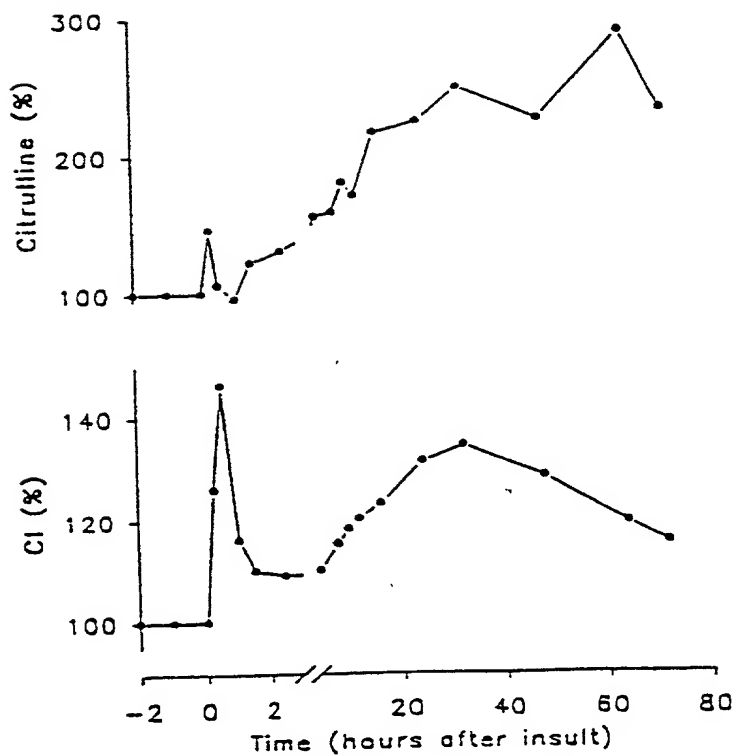
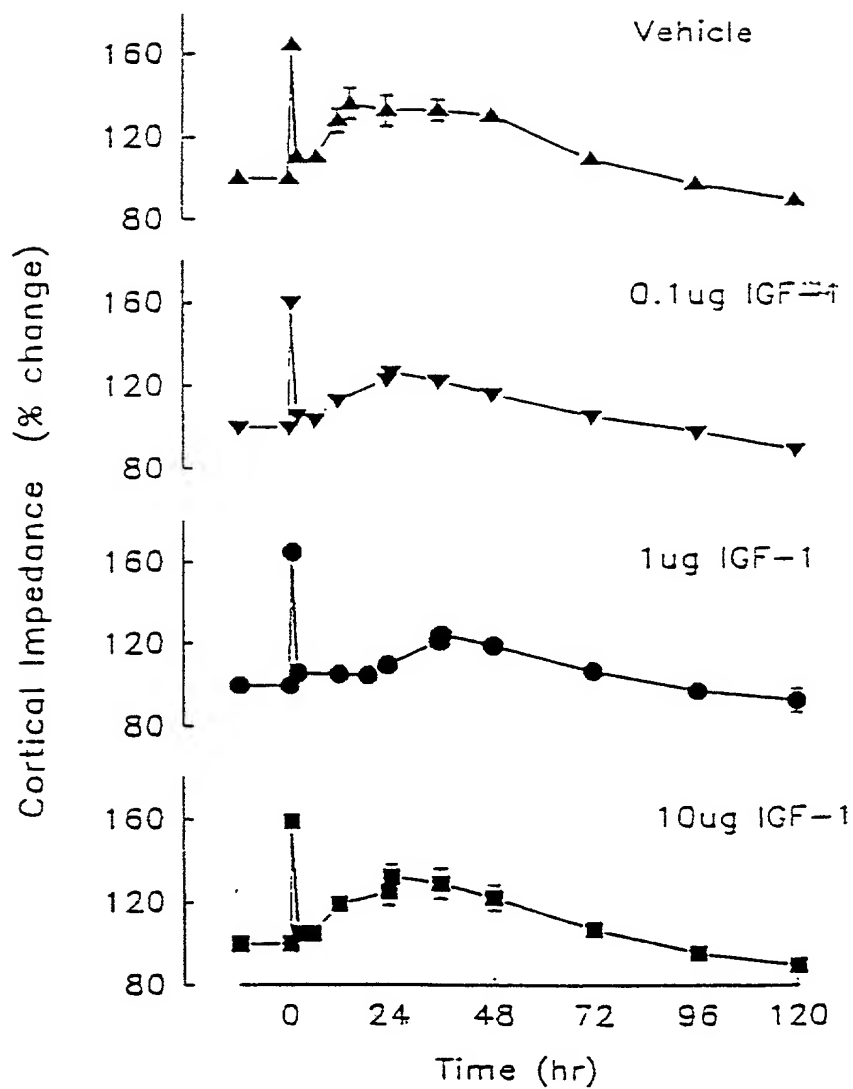
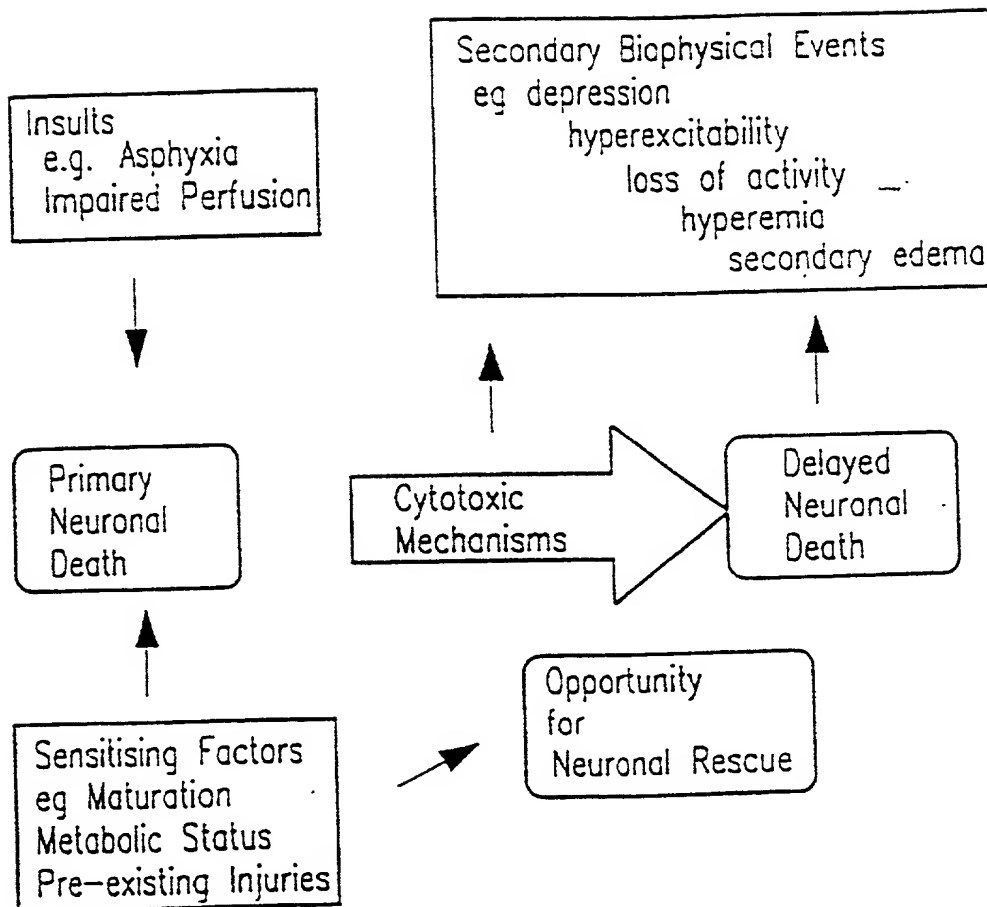


Figure 14

14 / 19

**Figure 15**

15 / 19

**Figure 16**

16 / 19

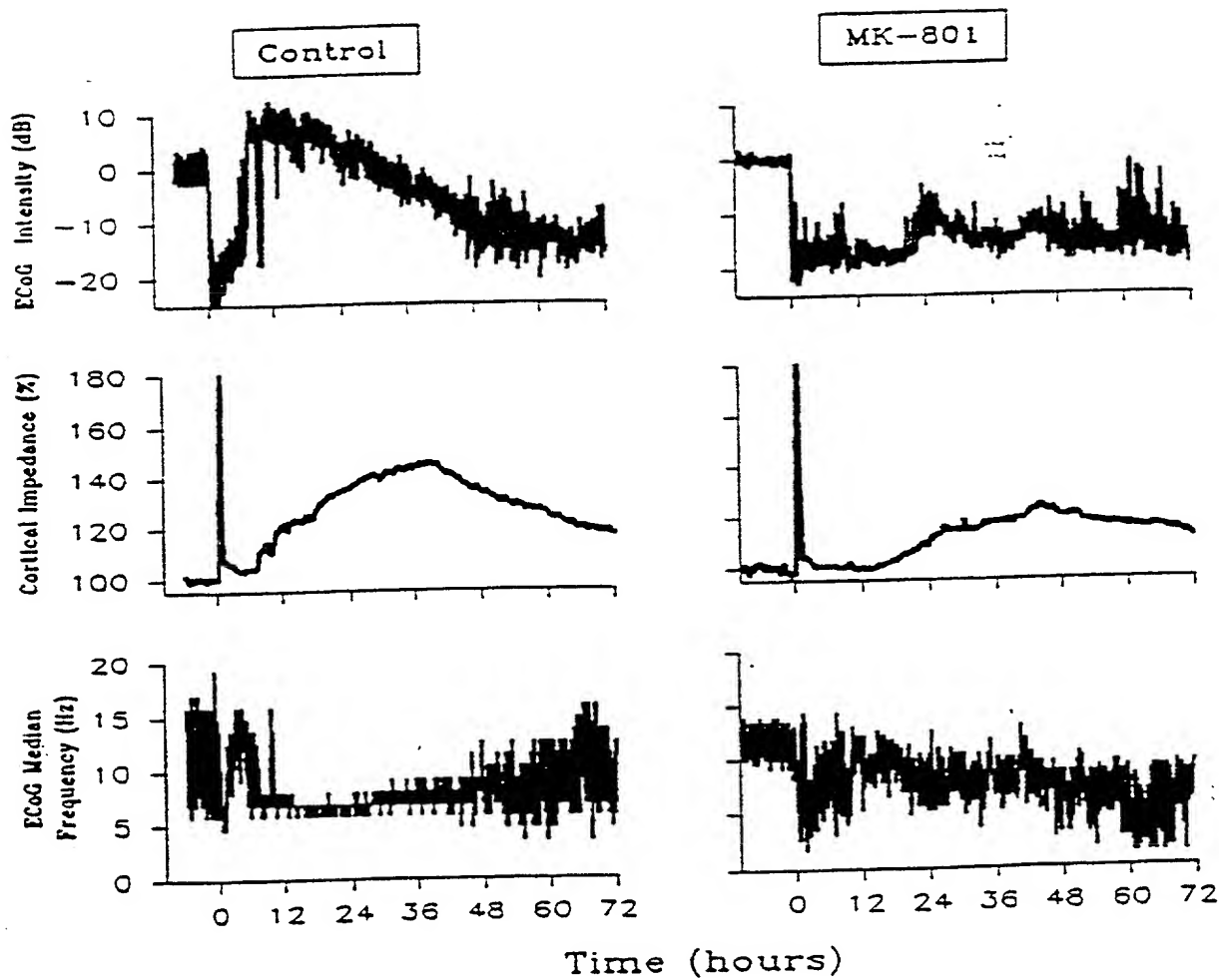
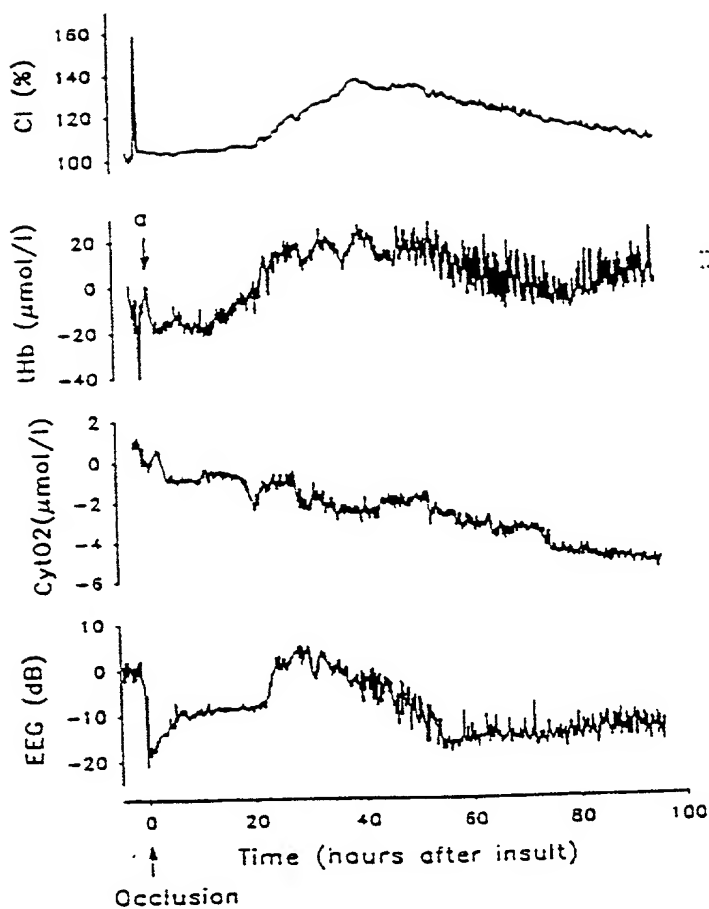


Figure 17

17 / 19

**Figure 18**

18 / 19

A	Hypoperfusion at +10 min	Hyperperfusion at +24 h
Cortical Neuronal Loss (%)	$r=0.65$ $p<0.001$ $\alpha=-0.70$	$r=0.67$ $p=0.007$ $\alpha=-0.50$

Figure 19

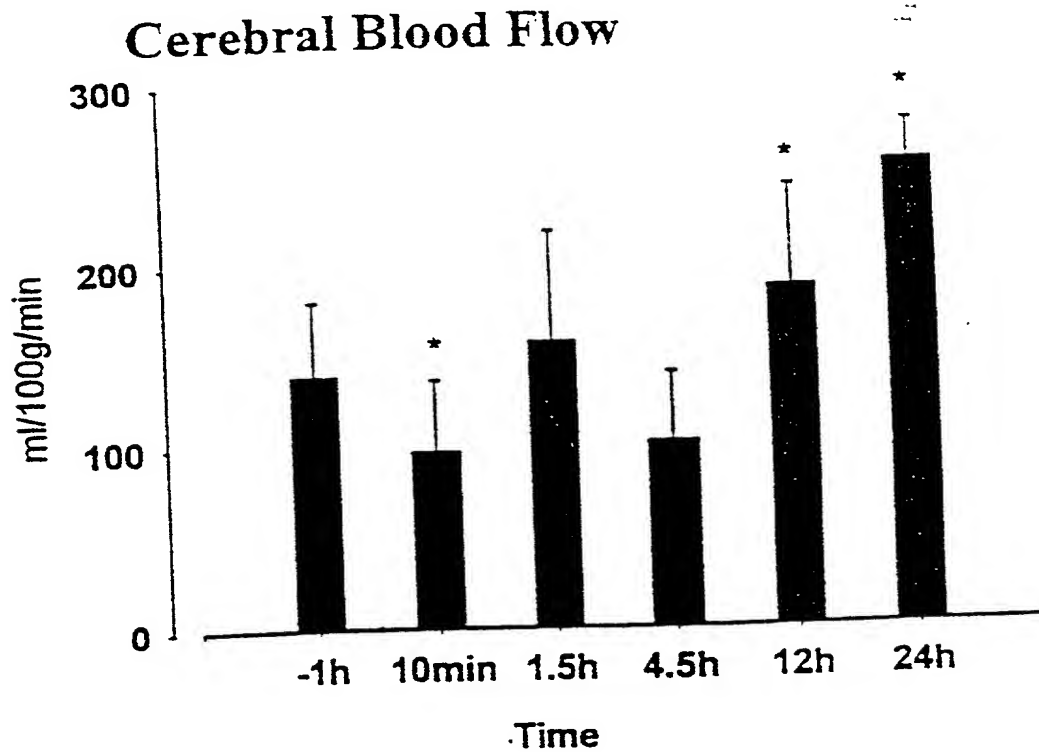
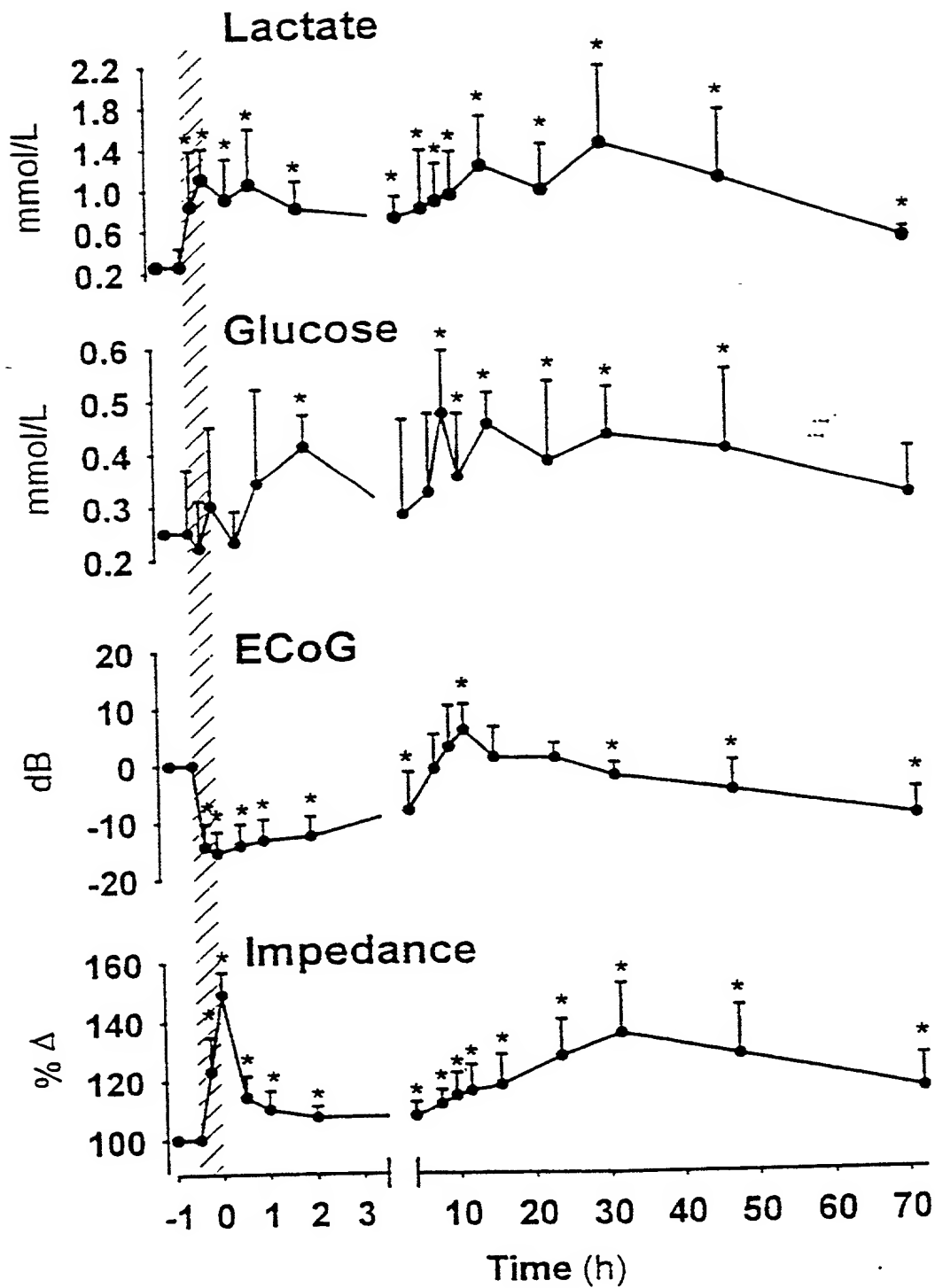


Figure 20

19/19

**Figure 21**